



Lum. 4.1-88  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Serial No.: 10/715,284

Group Art Unit: 1639

Filed: Nov. 17, 2003

Examiner: Christopher Gross

For: CLEAVABLE SOLID PHASES FOR ISOLATING NUCLEIC ACIDS

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.56,  
1.97(b)(3) and 1.98**

Sir:

The information statement is being submitted after the issuance of a first Office Action mailed on Jan. 10, 2006. Provided herewith is a listing of references in the attached form PTO-SB/08. Applicants submit the references in the present case pursuant to their obligation under 37 CFR §§ 1.56, 1.97(b)(3) and 1.98. Two foreign language documents, designated References T and U, were cited in a previous information statement. A concise statement of their relevance follows.

Reference T (Eur. Patent 0496822B1, in German) discloses chromatographic support materials comprising a porous particulate material linked to terminal 1°, 2°, or 3° amine groups for use in chromatographically separating nucleic acids. Samples are eluted

with a mobile phase containing a buffer, urea, and a gradient of salt concentration.

Reference U (Eur. Appl. 1243649A1, in German) describes polymeric resin particles for isolation and purification of nucleic acids. Carboxylate-modified linear non-crosslinked polymeric particles polymers having quaternary ammonium head groups are disclosed. The linear polymers incorporate quaternary tetraalkylammonium groups. DNA is eluted with strongly alkaline solutions.

Respectfully submitted,

  
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**Substitute for form 1449/PTO**

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

**(Use as many sheets as necessary)**

Sheet

of

***Complete if Known***

Application Number	10/718,284
Filing Date	11/17/2003
First Named Inventor	H. Akhavan-Tafti
Art Unit	1639
Examiner Name	C. Gross
Attorney Docket Number	Lum. 4.1-88

## U. S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T-6
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	T	EP0496822B1	10-17-1990	Macherey		
	U	1243649A1	03-23-2001	Müller		

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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